

## ABSTRACT

The present invention concerns methods of reducing the antigenicity of a proteinaceous compound while maintaining the compounds biological activity, as well as proteinaceous compositions with biological activity but reduced antigenicity. These methods and compositions have significant benefits to a subject in need of such compounds and compositions. Also included are modified toxin compounds that are truncated and/or possess reduce antigenicity. Such designer toxins have therapeutic, diagnostic, and preventative benefits, particularly as immunotoxins. Methods of treating cancer using these immunotoxins are provided.